Aokatec

WIRELESS TTL FLASH TRIGGER

AK-TTL

English

INSTRUCTION MANUAL

Foreword

Thank you for purchasing the Aokatec AK-TTL Wireless TTL Flash Trigger. To get the most out of your new AK-TTL, read this manual thoroughly before use.

Introduction

The Aokatec AK-TTL is a multi-feature radio flash trigger system for wireless flash shooting. Most of the original wireless flash system controlled by optical signals (such as Nikon Canon Sony Pentax). They are generally limited to line-of-sight operation and shorter ranges.
The AK-TTL system convert optical signals to radio transmission, it retain all functions of the original system, achieves a transmission distance of up to 360ft./110 m, all at a 360 degree angle. With the extended, more reliable range afforded by radio transmission, ambitious photography is made easier.
The AK-TTL also can work as a simple manual flash trigger.

Key features

- **Reliable Wireless Full TTL**
  2.4G Radio transmission, 110 meter / 360 ft, no direct line of sight needed
- **High-Speed Flash up to 1/8000**
- **Ratio lighting control**
- **Trigger multiple flashes simultaneously**
- **Simple setup**
  No programming required. No new system to learn. Set up as your original system.
- **Mix Radio and Optical system**
- **High-Speed Flash for studio flash**
- **One receiver (RX) can support 1 or more remote/slave flashes**
  (Use stereo cable splitter from AK-TTL Rx unit and additional ASC-1 sync cable, sold separately)
- **One transmitter (TX) can support 1 or multiple RX units and remote/slave flashes**
- **Same unit compatible with more flash systems**
  Completely compatible with:
  1. **Nikon** iTTL/CLS (Creative Lighting System)
  2. **Canon** optical wireless E-TTL flash system
  3. **Pentax** wireless P-TTL flash system
  4. **Olympus** wireless flash system
  5. **Sony** wireless flash system (Use SONY version TX)

AK-TTL TX
For Nikon Canon Pentax Olympus

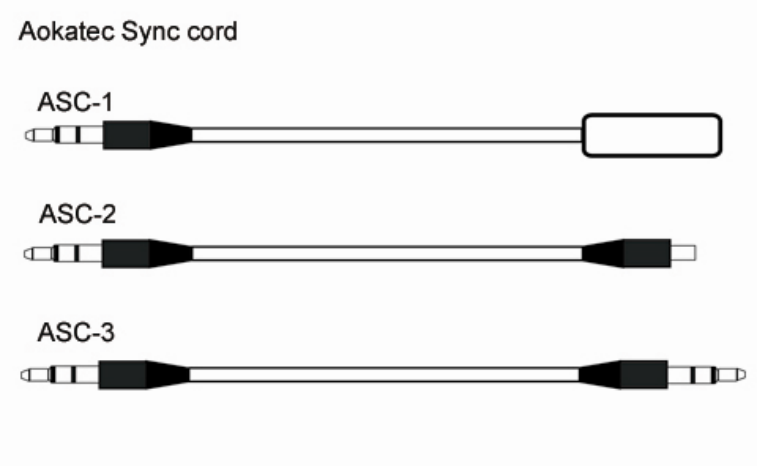
AK-TTL TX
For SONY

AK-TTL RX
For Nikon Canon Pentax Olympus & SONY

Nomenclature

1. **Mode mark**
   TX short for transmitter, RX short for receiver
2. **States indicator**
   Working——— green blink/4 seconds
   Trigger/Test——— long red blink
   Low battery——— red blink/4 seconds
3. **Test button**
4. **16 Frequency channel switch**
5. **Mounting foot**
6. **Power and mode switch:**
   Provides a choice **OFF** or **AUTO** or **M** (Manual)
7. **Sync terminal** (3.5mm)
8. **Battery cover**
9. **Strap hole**

Accessories

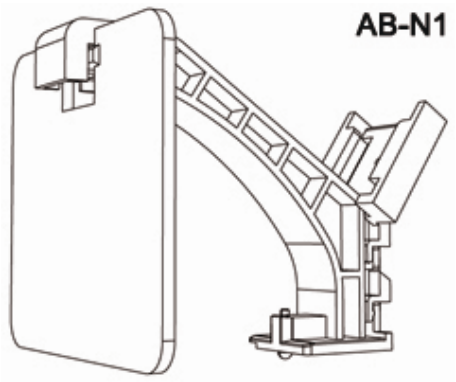


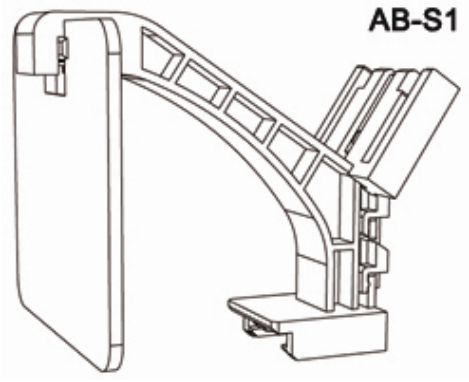
ASC-1 Sync Cable -----3.5mm male to IR sender (For AK-TTL **AUTO** mode)

ASC-2 Sync Cable -----3.5mm male to PC male (For AK-TTL **M** mode)

ASC-3 Sync Cable -----3.5mm male to 3.5mm male (For AK-TTL **M** mode)

Accessories





AB-N1 Hotshoe Bracket for AK-TTL TX and IR Panel for Nikon, Canon, Pentax and other standard hotshoe cameras.
AB-S1 Hotshoe Bracket for AK-TTL TX and IR Panel for Sony camera

How AK-TTL Works

Preparation

Installing Batteries

1. Open the cover;
2. Slide open the battery chamber lid in the right direction;
3. Close the battery chamber lid by sliding it into place while pressing down.

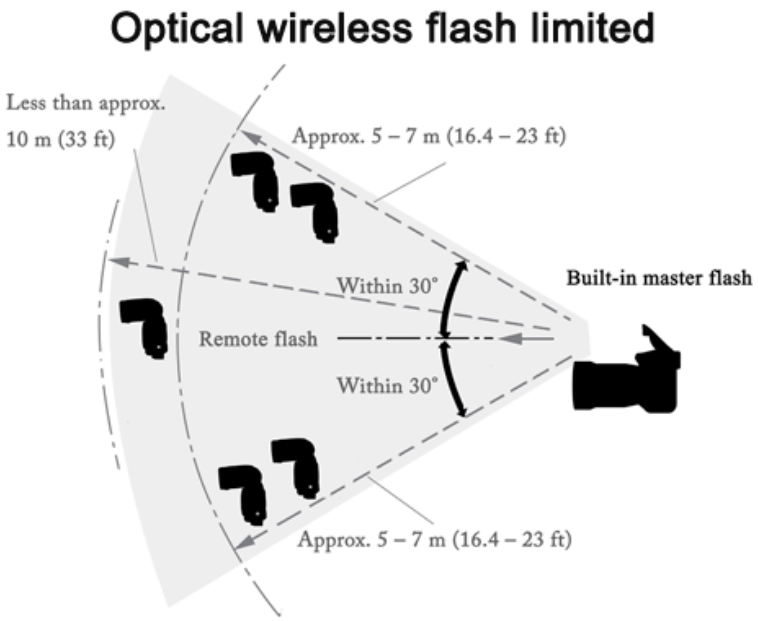
Setting Channel

Setting AK-TTL TX & RX into the same channel by channel switch.

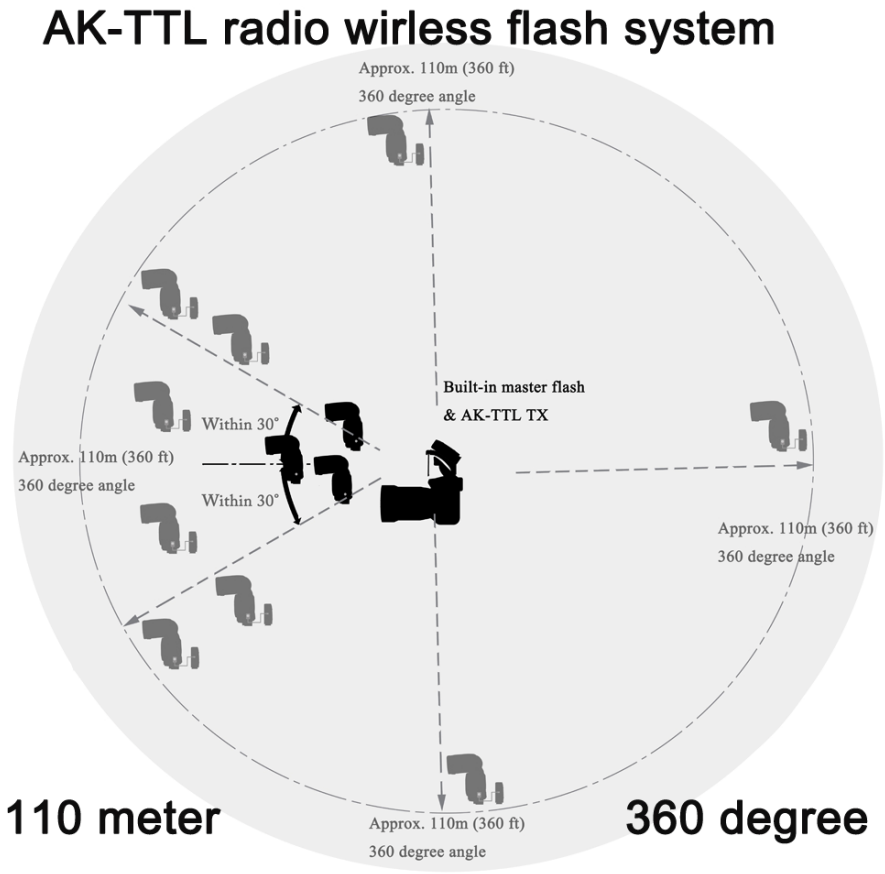
AK-TTL AUTO mode

Include TTL, Auto & M flash setting

Most of the original wireless flash system controlled by optical signals.
In **AUTO** mode, AK-TTL TX receive optical signal and converts it to Radio signal, then transmits to AK-TTL RX, RX converts Radio signal back to optical signal to control slave flash.



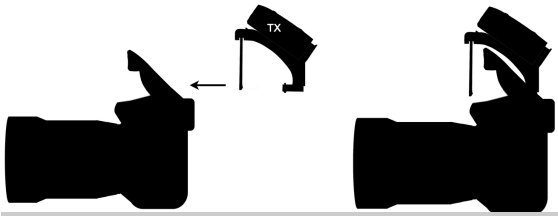
The AK-TTL system retain all of the original system, such as HSS/high speed, ratio control, iTTL/CLS,E-TTL,P-TTL, FV Lock, remote setting manual power levels.
It's stable and expand working range up to 110 meter/360ft. No limited to line-of-sight.



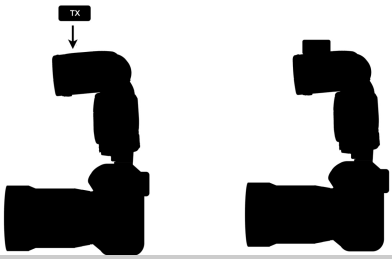
Important Note:
The AK-TTL AUTO mode needs a Commander/Master unit on camera.

Setting

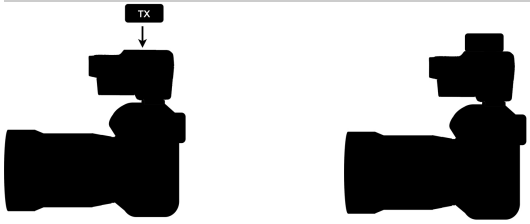
1. Mount TX on Commander/Master flash unit.



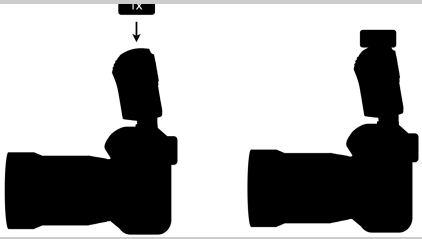
Mount TX on Pop-up flash



Mount TX on Master flash unit



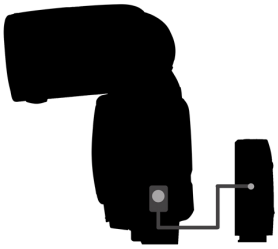
Mount TX on Canon ST-E2



Mount TX on Nikon SU-800

Note: Mount TX unit on the Commander/Master unit by Velcro (supplied). Ensure the SYNC connector side faces the same direction of flash head for better signal. Adjust position of TX unit for best results.

2. Connect RX and remote/slave flash by ASC-1 sync cable.
(Mount the ASC-1 IR sender on the slave flash wireless sensor window.)



3. **Make sure all TX and RX in the same Channel (set on Channel switch).**
4. **Set the AK-TTL's mode switch to AUTO on both TX and RX.**
5. **Then operate the original system as before, no more limited by line of sight.**

Note: Mount ASC-1 sync cable IR sender to IR sensor window of remote flash. If the IR sensor window is larger, use electrical tap cover most of it, make sure the original optical signal can't get into it.

AUTO mode Compatibility

Completely compatible with:

- Nikon iTTL/CLS (Creative Lighting System),
- Canon optical Wireless E-TTL flash system
- Pentax Wireless P-TTL flash system
- Sony Wireless flash system.

Other compatible brands and compatible camera models and flash models will be update on our website www.aokatec.com

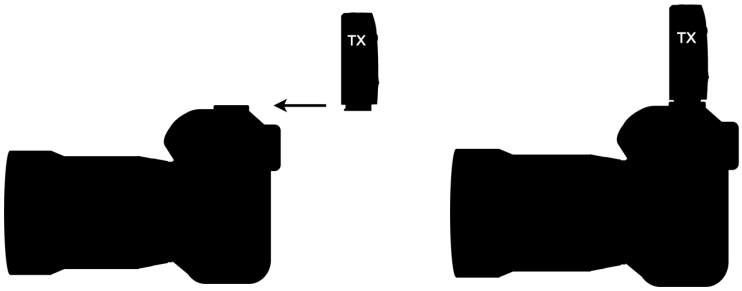
AK-TTL M mode

Manual flash setting

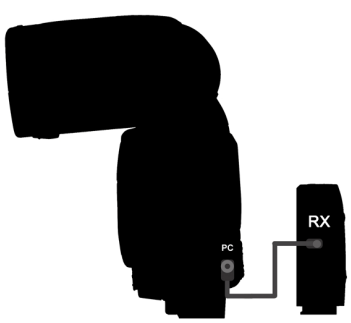
In M mode, AK-TTL work as simple wireless flash trigger.
Remote trigger the flash wireless from the camera. The flashes only work in manual mode, and set light output on each flash. The most fast flash sync speed is 1/320 s.

Setting

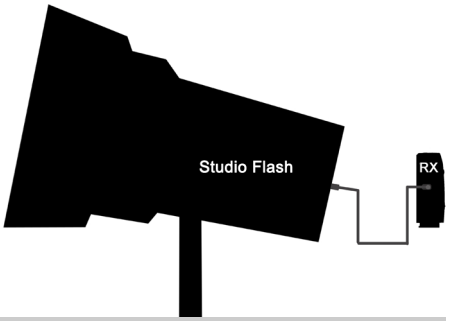
1. Mount the AK-TTL TX on camera hotshoe



2. Connect AK-TTL RX with flash by sync Cable.



(ASC-2 sync cable for hotshoe flash



ASC-3 sync cable for studio flash

3. Make sure all TX and RX in the same Channel (set on Channel switch)
4. Set the AK-TTL's mode switch to M on both TX and RX
5. Turn on flash and set the output manually
6. Press test button on TX, all flash with RX will blink
7. Release the camera's shutter start shooting.

AUTO mode Compatibility

Completely compatible with:
Almost all brands and models of SLR cameras and flashes.

Connect a flash meter with AK-TTL TX

Connect the flash meter and AK-TTL TX by ASC-2 Sync Cable, to trigger and meter the flash.

Specifications

Transmission System	Communicating on 2.4 GHz radio frequencies, 16 transmission channels are available
Transmission Range	Approx. 360ft./110 m
Transmission Angle	360° all around
Sync Speed	High-Speed Sync 1/8000 on "**AUTO**" model; 1/320 on "**M**" model
Power Source	Two 1.5V AAA batteries
Battery Life	Approx. 30 hours continuously
Dimensions	Approx. 1.7" (W) x 2.7" (H) x 1" (D) / 43.0 (W) x 68.5 (H) x 25.5 (D) mm
Weight	Approx. 1.2 oz. / 37g (excluding battery)

For Your Safety

To prevent damage to the AK-TTL and personal injury, please read and observe the following important security precautions.

- Keep the unit and accessories out of reach of children.
- Keep the unit dry.
- Do not attempt to insert batteries upside down or backwards; Do not mix old and new batteries or batteries of different types.
- Do not disassemble the unit.
- Do not expose to flame or excessive heat.
- Keep out of reach of children.
- Use only Promote® approved accessories.

CE Compliance

This device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

ICC Compliance

This Class [B] digital apparatus complies with Ca¬nadian ICES-003.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interfer¬ence, and
(2) this device must accept any interference re¬ceived, including interference that may cause un-desired operation.

Warning

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Mounting and cable connections detailed in this document represent the intended usage, however, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Consult the dealer or an experienced radio or television technician for help.

One-Year Limited Warranty

One-year limited warranty. Aokatec warrants this product against defect in materials and workmanship under normal use for period of one year from the date of retail purchase.

Support

Support and maintenance for AK-TTL is available at
www.aokatec.com support@aokatec.com